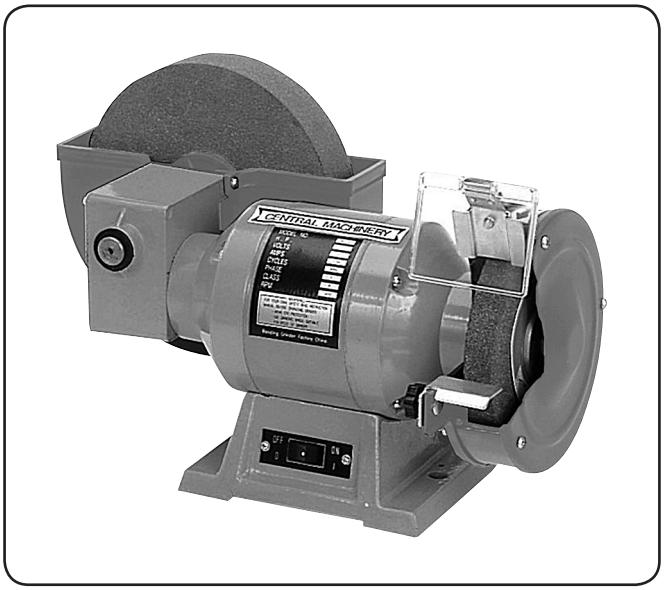
CENTRAL MACHINERY®

8” WET / 6” DRY GRINDER

Model 35098

SET UP AND OPERATING INSTRUCTIONS



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3491 Mission Oaks Blvd., Camarillo, CA 93011
Visit our website at: http://www.harborfreight.com

Read this material before using this product. Failure to do so can result in serious injury. SAVE THIS MANUAL.

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For technical questions or replacement parts, please call 1-800-444-3353.

Manual Revised 09h

SAVE THIS MANUAL

Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.

IMPORTANT SAFETY INFORMATION

In this manual, on the labeling, and all other information provided with this product:

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

⚠ DANGER **DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.**

⚠WARNING **WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.**

⚠CAUTION **CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.**

NOTICE **NOTICE is used to address practices not related to personal injury.**

CAUTION **CAUTION, without the safety alert symbol, is used to address practices not related to personal injury.**

General Tool Safety Warnings

WARNING Read all safety warnings and instructions. *Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.* **Save all warnings and instructions for future reference.**

1. KEEP GUARDS IN PLACE and in working order.
2. REMOVE ADJUSTING KEYS AND WRENCHES. Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
3. KEEP WORK AREA CLEAN. Cluttered areas and benches invite accidents.
4. DON'T USE IN DANGEROUS ENVIRONMENT. Don't use power tools in damp or wet locations, or expose them to rain. Keep work area well lighted.
5. KEEP CHILDREN AWAY. All visitors should be kept safe distance from work area.

6. MAKE WORKSHOP KID PROOF with padlocks, master switches, or by removing starter keys.

7. DON'T FORCE TOOL. It will do the job better and safer at the rate for which it was designed.

8. USE RIGHT TOOL. Don't force tool or attachment to do a job for which it was not designed.

RECOMMENDED MINIMUM WIRE GAUGE FOR EXTENSION CORDS (120 VOLT)				
NAMEPLATE AMPERES (at full load)	**EXTENSION CORD LENGTH**			
	25'	**50'**	**100'**	**150'**
0 – 6	18	16	16	14
6.1 – 10	18	16	14	12
10.1 – 12	16	16	14	12
12.1 – 16	14	12	**Do not use.**	
TABLE A				

9. USE PROPER EXTENSION CORD. Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Table A shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.

10. WEAR PROPER APPAREL. Do not wear loose clothing, neckties, rings, bracelets, or other jewelry which may get caught in moving parts. Nonslip footwear is recommended. Wear protective hair covering to contain long hair.

11. ALWAYS USE SAFETY GLASSES and a face or dust mask if grinding operation is dusty. Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses.

12. DON'T OVERREACH. Keep proper footing and balance at all times.

13. MAINTAIN TOOLS WITH CARE. Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.

14. DISCONNECT TOOLS before servicing; when changing accessories, such as blades, bits, cutters, and the like.

15. REDUCE THE RISK OF UNINTENTIONAL STARTING. Make sure switch is in off position before plugging in.

16. USE RECOMMENDED ACCESSORIES. Consult the owner's manual for recommended accessories. The use of improper accessories may cause risk of injury to persons.

17. CHECK DAMAGED PARTS. Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function – check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.

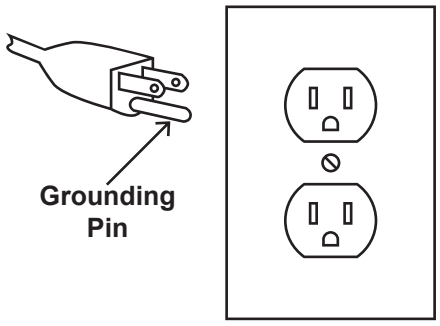
18. NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER OFF.

GROUNDING INSTRUCTIONS

⚠WARNING **TO PREVENT ELECTRIC SHOCK AND DEATH FROM INCORRECT GROUNDING WIRE CONNECTION READ AND FOLLOW THESE INSTRUCTIONS:**

110-120 V~ Grounded Tools: Tools with Three Prong Plugs

1. In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.
2. Do not modify the plug provided – if it will not fit the outlet, have the proper outlet installed by a qualified electrician.
3. Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.
4. Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded.
5. Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tool's plug.
6. Repair or replace damaged or worn cord immediately.

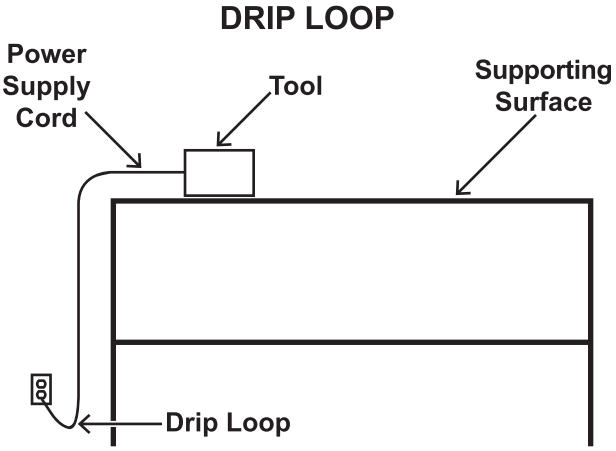


125 V~ 3-Prong Plug and Outlet
(for up to 125 V~ and up to 15 A)

7. This tool is intended for use on a circuit that has an outlet that looks like the one illustrated above in **125 V~ 3-Prong Plug and Outlet**. The tool has a grounding plug that looks like the plug illustrated above in **125 V~ 3-Prong Plug and Outlet**.
8. The outlet must be properly installed and grounded in accordance with all codes and ordinances.
9. Do not use an adapter to connect this tool to a different outlet.

Grinder Safety Warnings

POSITION OF GRINDER



1. To avoid the possibility of the tool plug or receptacle getting wet, position grinder to one side of a wall mounted receptacle to prevent water from dripping onto the receptacle or plug. The user should arrange a “drip loop” in the cord connecting the saw to a receptacle. The “drip loop” is that part of the cord below the level of the receptacle, or the connector if an extension cord is used, to prevent water traveling along the cord and coming in contact with the receptacle.

2. If the plug or receptacle does get wet, DON’T unplug the cord. Disconnect the fuse or circuit breaker that supplies power to the tool. Then unplug and examine for presence of water in the receptacle.

EXTENSION CORDS

3. Use only extension cords that are intended for outdoor use. These extension cords are identified by a marking “Acceptable for use with outdoor tools; store indoors while not in use.” Use only extension cords having an electrical rating not less than the rating of the product. Do not use damaged extension cords. Examine extension cord before using and replace if damaged. Do not abuse extension cords and do not yank on any cord to disconnect. Keep cord away from heat and sharp edges. Always disconnect the extension cord from the receptacle before disconnecting the product from the extension cord.

4. WARNING – To reduce the risk of electrocution, keep all connections dry and off the ground. Do not touch plug with wet hands.

5. Connect the power supply only through a GFCI unit. Ground Fault Circuit Interrupter (GFCI) protection should be provided on the circuit(s) or outlet(s) to be used for the grinder. Receptacles are available having built-in GFCI protection and may be used for this measure of safety.

6. **DO NOT OPERATE WITH ANY GUARD DISABLED, DAMAGED, OR REMOVED. Moving guards must move freely and close instantly.**

7. Use water only with the Wet Wheel. Keep all other parts of the tool dry. Dry hands after filling the reservoir and before touching any part of the tool.

8. Do not fill the reservoir with more than 8 oz. of water.

9. The use of accessories or attachments not recommended by the manufacturer may result in a risk of injury to persons.

10. **Do not use aluminum oxide wheels when grinding nonferrous metals**

such as aluminum and brass. Use silicon carbide wheels (not included) for nonferrous metals.

11. When servicing use only identical replacement parts.

12. Only use safety equipment that has been approved by an appropriate standards agency. Unapproved safety equipment may not provide adequate protection. Eye protection must be ANSI-approved and breathing protection must be NIOSH-approved for the specific hazards in the work area.

13. Industrial applications must follow OSHA guidelines.

14. Maintain labels and nameplates on the tool. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.

15. Avoid unintentional starting. Prepare to begin work before turning on the tool.

16. People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure.

17. WARNING: Some dust created by power sanding, sawing, grinding, drilling, and other construction activities, contains chemicals known [to the State of California] to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:
    • Lead from lead-based paints
    • Crystalline silica from bricks and cement or other masonry products
    • Arsenic and chromium from chemically treated lumber
    Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles. (California Health & Safety Code § 25249.5, *et seq.*)

18. WARNING: This product contains or, when used, produces a chemical known to the State of California to cause cancer and birth defects or other reproductive harm. (California Health & Safety Code § 25249.5, *et seq.*)

19. The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

Vibration Safety

This tool vibrates during use. Repeated or long-term exposure to vibration may cause temporary or permanent physical injury, particularly to the hands, arms and shoulders. To reduce the risk of vibration-related injury:

1. Anyone using vibrating tools regularly or for an extended period should first be examined by a doctor and then have regular medical check-

ups to ensure medical problems are not being caused or worsened from use. Pregnant women or people who have impaired blood circulation to the hand, past hand injuries, nervous system disorders, diabetes, or Raynaud's Disease should not use this tool. If you feel any medical or physical symptoms related to vibration (such as tingling, numbness, and white or blue fingers), seek medical advice as soon as possible.

2. Do not smoke during use. Nicotine reduces the blood supply to the hands and fingers, increasing the risk of vibration-related injury.

3. Wear suitable gloves to reduce the vibration effects on the user.

4. Use tools with the lowest vibration when there is a choice between different processes.

5. Include vibration-free periods each day of work.

6. Grip tool as lightly as possible (while still keeping safe control of it). Let the tool do the work.

7. To reduce vibration, maintain the tool as explained in this manual. If any abnormal vibration occurs, stop use immediately.

SAVE THESE INSTRUCTIONS.

SPECIFICATIONS

Electrical Input	120 V~ / 60 Hz / 1/2HP
Dry Grinding:	
Wheel Speed	3450 RPM
Max. Accessory Dia.	6"
Arbor Size	5/8"
Wet Grinding:	
Wheel Speed	160 RPM
Max. Accessory Dia.	8"
Arbor Size	1/2"
Included Accessories	One wet and one dry grinding wheel

UNPACKING

When unpacking, make sure that the item is intact and undamaged. If any parts are missing or broken, please call Harbor Freight Tools at 1-800-444-3353 as soon as possible.

INSTRUCTIONS FOR PUTTING INTO USE

Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

WARNING TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Turn the Power Switch of the tool to its "OFF" position and unplug the tool from its electrical outlet before assembling or making any adjustments to the tool.

Note: For additional information regarding the parts listed in the following pages, refer to the Assembly Diagram near the end of this manual.

Components

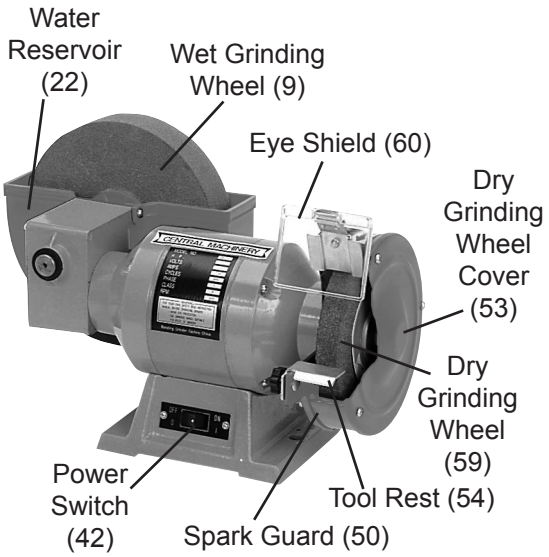


Figure 1

Assembly

Work Piece and Work Area Set Up

1. Designate a work area that is clean and well-lit. The work area must not allow access by children or pets to prevent distraction and injury.
2. Route the power cord along a safe route to reach the work area without creating a tripping hazard or exposing the power cord to possible damage.
3. Avoid water reaching the electrical outlet by arranging the power cord with a “drip loop” as described under the Grinder Safety Warnings section of this manual.
4. Keep all areas of the tool and around the tool dry except for the Wet Grinding Wheel (9) and the Water Reservoir (22).
5. Before each use check that the Power Cord is in good working order, and that the seal and connection to the tool cannot allow water to enter the housing.

Securing Grinder

1. This grinder must be mounted on a stable, flat and level surface before use. Make sure the surface or workbench is sturdy enough to bear the weight of the Grinder, and any additional tools, accessories, and workpieces.
2. Place the Grinder in the desired location, considering needed access to both wheels. Check for any hidden wiring or cables and adjust the location for the holes as needed.
3. Mark the base hole locations on the table surface, then set the Grinder aside.
4. Drill two 1/2” holes in the table surface and bolt the Grinder to the table using 7/16” bolts and nuts (sold separately).

Attaching the Eye Shield Assembly to the Dry Wheel Assembly

Attach the Eye Shield (60) assembly to the top of the Spark Guard (50) by sliding the Eyeshield Bracket under the Guard and aligning the holes in both pieces. Place Toothed Washers (13) on two Screws (66) and thread through the Spark Guard and Eye Shield Bracket. Secure in place.

Grinding Wheels

The grinding wheels are pre-assembled on the grinder. Remove them and perform a Ring Test before first use as described in the following sections, then re-install the Wheels.

Replacing Dry Grinding Wheel (59)

1. Remove three Screws (51), Nuts (52) and Toothed Washers (13) from Cover (53), then remove the Cover.
2. While wearing heavy duty work gloves, hold onto the Wheel with one hand and remove the Nut (55) from the motor shaft, turning counterclockwise.
3. Remove the outer Flange (56) and the wheel.
4. Place the new Wheel over the Inner Flange (57). Slide the Outer Flange onto the Spindle and the Wheel.
5. Thread the Nut (55) clockwise onto the Rotor Shaft and tighten in place while holding the Wheel.
6. Stand clear of the Wheel and run the new Wheel with no load for about 10 minutes to verify the integrity of the new Wheel (See Turning the Grinder On and Off - page 10).

Replacing Wet Grinding Wheel (9)

1. Remove the three Screws (19) and Toothed Washers (20) from the Water Reservoir (22) and remove the Water Reservoir from the unit.
2. Hold onto the Wheel with one hand and remove the Nut (11) from the Gear Shaft (2).
3. Remove the Washer (7), Flange (10) and Wheel (9).
4. Slide the new Wheel, outer Flange (10), and Washer (7) onto the Gear Shaft.
5. Thread the Nut (11) onto the end of the Gear Shaft and turn until snug.
6. Run the Wheel with no load (and no water) for about 10 minutes to verify the integrity of the new Wheel (See Turning the Grinder On and Off - page 10).

Ring Test for Grinding Wheel

7. Closely inspect the Grinding Wheel before mounting. Perform a ring-test on the wheel as follows:

   a. Suspend wheel using a pin or finger through the arbor hole.

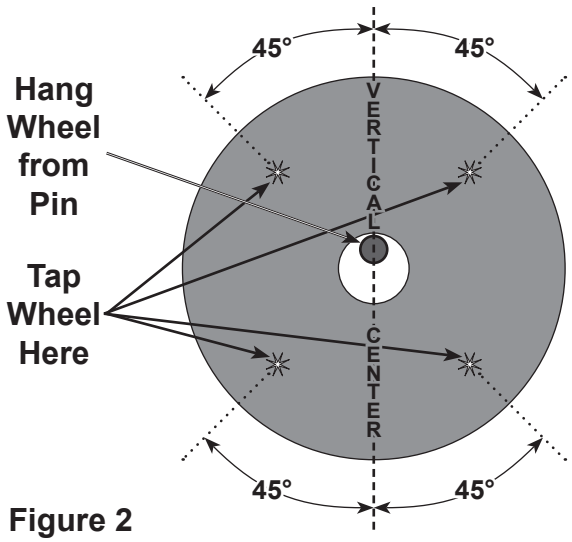


Figure 2

   b. Tap the flat side of the wheel with a light non-metallic object, such as a screwdriver handle, at a point 45° from the vertical center line on each side of the wheel and 1 – 2 inches from the edge of the wheel - See Fig. 2.

c. Rotate the wheel 90° and repeat the test until the entire wheel has been checked.

d. An undamaged wheel will give a clear tone. If cracked, there will be a dead sound and not a clear ring.

General Operating Instructions

Turning the Grinder on and off

1. Check that the Power Switch (42) is off and that no objects are in contact with, or near, the wheels.
2. Fill the Water Reservoir (22) with enough clean water so that up to 3/4" of the side of the wheel is wet when the wheel is rotated (approx. 6 to 8 oz.).
3. With dry hands, plug the unit into a GFCI outlet.
4. Turn the Power Switch on.
5. When finished using the Grinder, turn the Power Switch off and unplug the unit.

Emptying the Water Reservoir

To empty the Water Reservoir (22) of water:

a. Slide a shallow bowl which can hold at least 8 oz. of water, under the Water Reservoir and twist and pull off the Plug (25) at the bottom of the Reservoir.

b. When all the water is drained out of the Reservoir, slide the bowl out from under the unit and replace the Plug.

c. Discard the water in a safe location. Do not pour the water down a drain as it may contain particles which can clog plumbing.

Dressing the Wheel

Dressing is the process of removing built-up, dull particles from the surface of the wheel, exposing the original sharp abrasive particles, thus restoring the surface of the wheel. Dressing is an important process in preparing a new wheel before first use because the surface may have stray particles from the factory which will affect the surface. It is also important as a maintenance procedure to clean off build-up on the wheel during use. You will need a grinding wheel dresser (sold separately) for this operation.

Note: Stand to the side of the wheel and wear a face shield to protect against flying sparks.

6. If the wheel is new, let it run for a full minute with no load.
7. If you are using a "pistol grip" dresser, grip the handle firmly with one hand, and the arm of the dresser with the other. Allow the wheel to reach full speed. Use the tool rest to support your hand and the dresser, and apply to the wheel evenly to all surfaces.
8. If you are using an "in-line" dresser, hold the handle firmly, put the dresser on the tool rest so that its wheels can move freely (the exposed parts of the wheel should be facing up). Let the wheel reach full speed and apply the dresser evenly to all surfaces used for grinding. There is no tool rest on the wet wheel, but the lower speed still allows for easy, free-hand dressing.

Using the Grinder

1. Always bring the workpiece into the Wheel gently and without jarring.

2. When using the Wet Grinding Wheel, periodically check that the wheel is wet on the sides up to about 3/4". As needed, refill the Reservoir with more clean water. Be sure to turn the power off and unplug the unit before filling with more water.

3. When using the Dry Grinding Wheel, the workpiece will quickly become heated, therefore frequent quenching is required. Wipe off excess water before addressing the tool to the Grinder.

Note: When grinding wood cutting tools, or any metal tool, do not let the metal become heated so much that it gets blue-colored, or it will loose it's temper and be too soft to be useful. As soon as the tool begins to show an orange glow, stop grinding and quench the tool with water.

   If the tool does get hot enough to become blue-colored, the overheated portion of the metal must be ground off, and the tool must then be re-sharpened.

4. Due to frequent misuse and overuse, screwdrivers commonly need to be ground. The simple procedure is to grind them flat, however hollow grinding will give a better result. To hollow grind, simple apply the flat of the screwdriver to the wheel in such a way that a very slight curvature results. After grinding the flat of the blade, the tip must be ground flat and even.

5. Flat chisels should be ground in the same way as above, with the exception to flattening the tip. The tip should be ground to a mild point depending upon the desires of the user. The most common example is 60°.

6. Center punches should also be hollow ground, but you must rotate them evenly in a circle in order to achieve the desired result. The tool must have the tips ground to a point. Common points are 90° for a center point and 60° for a prick punch.

7. To prevent accidents, turn off the tool and disconnect its power supply after use. Clean, remove water from the Water Reservoir, then store the tool indoors out of children's reach.

MAINTENANCE AND SERVICING

Procedures not specifically explained in this manual must be performed only by a qualified technician.

⚠WARNING TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Turn the Power Switch of the tool to its "OFF" position and unplug the tool from its electrical outlet before performing any inspection, maintenance, or cleaning procedures.

TO PREVENT SERIOUS INJURY FROM TOOL FAILURE:
Do not use damaged equipment. If abnormal noise or vibration occurs, have the problem corrected before further use.

Cleaning, Maintenance, and Lubrication

1. **BEFORE EACH USE,** inspect the general condition of the tool. Check for loose hardware, misalignment or binding of moving parts, cracked or broken parts, damaged electrical wiring, and any other condition that may affect its safe operation.
2. Check the grinding wheels for build up of particles which can dull the surface. Dress the Wheel as needed according to the Dressing the Wheel instructions in the General Operating Instructions.
1. Empty the Water Reservoir after use and check the Water Reservoir (22) for debris build up. Clean as needed.

   To remove and clean the Reservoir:

   a. Drain the water from the Water Reservoir (22) (See General Operating Instructions - Emptying the Water Reservoir).
   b. To remove the Water Reservoir, unthread the three Screws (19) and Toothed Washers (20) and remove the Water Reservoir from the unit.
   c. Clean out any accumulated debris from the bottom using a stiff brush (sold separately) if needed.
   d. Replace the Reservoir.
2. **AFTER USE,** wipe external surfaces of the tool with clean cloth.

⚠WARNING! If the supply cord of this power tool is damaged, it must be replaced only by a qualified service technician.

Troubleshooting

Problem	Possible Causes	Likely Solutions
Tool will not start.	1. Cord not connected. 2. No power at outlet.	1. Check that cord is plugged in. 2. Check power at outlet. If outlet is unpowered, turn off tool and check circuit breaker. If breaker is tripped, make sure circuit is right capacity for tool and circuit has no other loads.
Wheel runs unevenly or wobbles.	1. Wheel is unevenly seated. 2. Wheel is faulty. 3. Bearings are damaged or misaligned.	1. Check that the Wheel is secured in place. 2. Replace Wheel. 3. Have tool serviced by a qualified technician.
Wet Wheel does not turn when power is on.	Loose Wet Wheel assembly.	Tighten Nut (11) to secure Wet Wheel in place, being careful not to over-tighten and crack the plastic Flanges (8/10).
Tool operates slowly.	Extension cord too long or wire size too small.	Eliminate use of extension cord. If an extension cord is needed, use shorter/ heavier gauge cord.
Performance decreases over time.	Accessory dull or damaged.	Keep grinding accessories in working order. Replace as needed.
Excessive noise or rattling.	Internal damage or wear.	Have technician service tool.
Overheating.	1. Forcing machine to work too fast. 2. Accessory misaligned. 3. Accessory dull or damaged. 4. Motor being strained by long or small diameter extension cord.	1. Allow machine to work at its own rate. 2. Check and correct accessory to fence and/or table alignment. 3. Keep grinding accessories in working order. Replace as needed. 4. Eliminate use of extension cord. If an extension cord is needed, use one with the proper diameter for its length and load.

Follow all safety precautions whenever diagnosing or servicing the tool. Disconnect power supply before service.

PLEASE READ THE FOLLOWING CAREFULLY

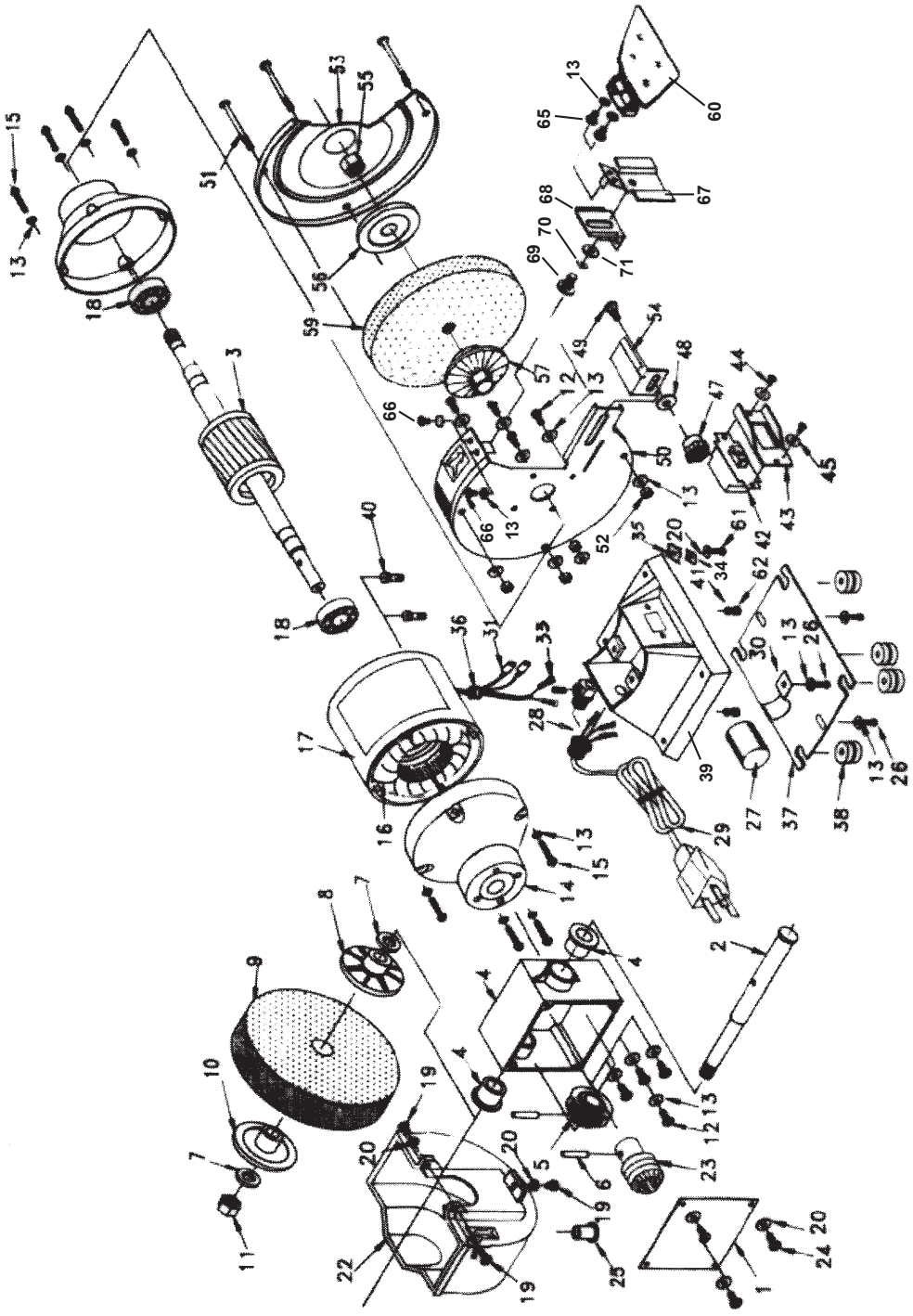
THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

PARTS LIST

Part	Description	Qty
1	Gear Box Cover	1
2	Gear Shaft	1
3	Rotor	1
4	Gear Casing	1
5	Gear	1
6	Pin 5 x 25	2
7	Washer #12	2
8	Inner Flange	1
9	Wet Grinding Wheel	1
10	Outer Flange	1
11	Nut M12	1
12	Screw M5 x 12	8
13	Toothed Washer	22
14	End Bell	2
15	Screw M5 x 35	8
16	Stator	1
17	Motor Case	1
18	Bearing 6202zz	2
19	Screw M4 x 12	3
20	Washer #4	7
22	Water Reservoir	1
23	Worm Gear	1
24	Bolt M4 x 8	1
25	Plug	1
26	Screw M5 x 10	3
27	Capacitor	1
28	Strain Relief	1
29	Cable with Plug	1
30	Capacitor Holder	1
31	Plug-in Wire Lead	2
33	Wire Case	5
34	Washer #1	1
35	Washer Support #1	1
36	Bushing #1	1

Part	Description	Qty
37	Base Plate	1
38	Rubber Pad	4
39	Motor Base	1
40	Bolt M8 x 25	2
41	Washer #2	2
42	Power Switch	1
43	Switch Plate	1
44	Bolt M3 x 12	2
45	Washer #6	2
47	Knob	1
48	Washer #6	1
49	Bolt M6 x 14	1
50	Spark Guard	1
51	Screw M5 x 0.8 x 55	3
52	Nut M5	3
53	Dry Grinding Wheel Cover	1
54	Tool Rest	1
55	Nut M14	1
56	Outer Flange	1
57	Inner Flange	1
59	Dry Grinding Wheel	1
60	Eye Shield	1
61	Screw M4 x 12	1
62	Nut M8	2
63	Wire Tie	1
65	Screw M4 x 5	2
66	Screw M5 x 8	2
67	Eyeshield Bracket	1
68	Eyeshield Mount	1
69	Bolt M6 x 10	1
70	Toothed Washer #6	1
71	Washer #6	1
72	Internal Toothed Washer M5 (not shown in Assembly Diagram)	3

ASSEMBLY DIAGRAM



Record Product's Serial Number Here:_____

Note: If product has no serial number, record month and year of purchase instead.

Note: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.

LIMITED 1 YEAR / 90 DAY WARRANTY

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that for a period of ninety days from date of purchase that the engine/motor, the belts (if so equipped), and the blades (if so equipped) are free of defects in materials and workmanship. Harbor Freight Tools also warrants to the original purchaser, for a period of one year from date of purchase, that all other parts and components of the product are free from defects in materials and workmanship (90 days if used by a professional contractor or if used as rental equipment). This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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